



Application No. 09/994,394
Response to Final Office Action dated January 31, 2006

6001.1189

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A perforating tool for perforating single or multiple layer material webs or sheets separated therefrom, the perforating tool comprising:

a first section having a plurality of perforating teeth and a perforation-free gap; and
a second section having a cutting zone and at least one group of perforating elements in alternating sequential fashion, the perforating elements being angled with respect to a longitudinal axis of the second section;

the first section being adjacent the second section at a ~~fold~~ center line, the perforation-free gap of the first section extending from the ~~fold~~ center line to the plurality of perforating teeth.

Claim 2 (previously presented): The perforating tool as recited in claim 1 wherein the perforation-free gap of the first section borders on the cutting zone of the second section.

Claim 3 (previously presented): The perforating tool as recited in claim 1 wherein the cutting zone borders, on one side, on the perforation-free gap and, on the other side, on the group of perforating elements.

Claim 4 (original): The perforating tool as recited in claim 1 wherein the perforating elements of the group are angled in relation to the axis at an angle of between 20° and 40°.

Claim 5 (original): The perforating tool as recited in claim 4 wherein the angle is 30°.

Claim 6 (previously presented): The perforating tool as recited in claim 1 wherein the at least one group includes two groups and the second section further includes cutting segments, in alternating sequential fashion, between the groups.

Claim 7 (previously presented): The perforating tool as recited in claim 1 wherein the perforating elements at a front edge and at a rear edge are symmetrically angled with respect to the axis.

Claim 8 (original): The perforating tool as recited in claim 1 wherein the perforating elements at a rear edge are angled on one side with respect to the axis.

Claim 9 (original): The perforating tool as recited in claim 1 wherein the perforating elements at a front edge are inclined with respect to the axis.

Claim 10 (previously presented): The perforating tool as recited in claim 1 wherein the perforating elements are configured as perforating tongues.

Claim 11 (previously presented): The perforating tool as recited in claim 10 wherein the perforating elements of the at least one group of perforating elements are separated by slit-shaped openings.

Claim 12 (previously presented): The perforating tool as recited in claim 1 wherein the perforating elements of the at least one group of perforating elements have a slanted surface at tips of the perforating elements.

Claim 13 (original): The perforating tool as recited in claim 1 wherein a length of the first section and a length of the second section are the same.

Claim 14 (currently amended): A perforating device in a folding apparatus arranged downstream of a web-processing rotary printing machine, the perforating device comprising: a perforating tool for perforating single or multiple layer material webs or sheets separated therefrom, the perforating tool including a first section having a plurality of perforating teeth and a perforation-free gap; and a second section having a cutting zone and at least one group of perforating

elements in alternating sequential fashion, the perforating elements being angled with respect to a longitudinal axis of the second section; the first section being adjacent the second section at a ~~fold~~ center line, the perforation-free gap of the first section extending from the ~~fold~~ center line to the plurality of perforating teeth.

Claim 15 (currently amended): A perforating tool for perforating single or multiple layer material webs or sheets separated therefrom, the perforating tool comprising:

a first section having a plurality of perforating teeth and a perforation-free gap; and

a second section having a cutting zone and a plurality of perforating elements angled with respect to the perforating tool and arranged in the second section in sequential rows;

the first section being adjacent the second section so as to define a fold line, the perforation-free gap of the first section extending from the ~~fold~~ center line to the plurality of perforating teeth.

Claim 16 (currently amended): The perforating tool as recited in claim 1 wherein the ~~fold~~ center line is located at the center of the tool.

Claim 17 (previously presented): The perforating tool as recited in claim 1 wherein the plurality of perforating teeth are separated by spaces, the perforation-free gap being wider than the spaces.

Claim 18 (currently amended): The perforating tool as recited in claim 1 wherein the cutting zone borders the perforation-free gap at the ~~fold~~ center line.

Claim 19 (currently amended): The perforating tool as recited in claim 1 wherein the first section defines a first half of the tool and the second section defines a second half of the tool, the ~~fold~~ center line separating the first and second halves.